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10/829,333	04/22/2004	Wen-Hsuan Sun	MR1035-1453	6791

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ROSENBERG, KLEIN & LEE  
3458 ELLICOTT CENTER DRIVE-SUITE 101  
ELLICOTT CITY, MD 21043

EXAMINER
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RABOVIANSKI, JIVKA A

ART UNIT	PAPER NUMBER
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2623

MAIL DATE	DELIVERY MODE
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10/04/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/829,333

Applicant(s)

SUN ET AL.

Examiner

Jivka Rabovianski

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 – 9, 11 – 12, and 14 - 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Conner, Finis US 20030218064 A1 (“Conner” herein after).

Regarding claim 1 Conner teaches:

An integrated multimedia microcomputer device comprising:

a memory for storage of at least an operation system and a plurality of application programs ( see Fig. 25/ 161, 164 and [0079] line 6 – “application software may be stored in the storage area”);

a system-on-a-chip including a general purpose processor (Fig. 44/130 and ([0101] line 7-8 –“ Microprocessor 130 controls the flow of information in the viewer”) electrically connected with a audio processor and an video processor ([0101] line 7-8 –“ Microprocessor 130 controls the flow of information in the viewer and provide encode/decode operations”) and ([0093] line 1 –3 – “multi-purpose portable electronic system includes a host device, e.g., the host device 101 of FIG. 1, and a guest device, e.g., card 150' of FIG. 23”, [0094] line 4-5 –“ the card is configured as an application-

specific data processing device” and also [0094] line 5-7 –“ the card may be configured to provide a mobile phone service, PDA, an MP3 player, a video player”) , said general purpose processor being used for execution and processing of said operation system and said application programs, said audio processor being used for encoding/decoding and processing of audio data, said video processor being used for encoding/decoding (Microprocessor controls the flow of information in the viewer and provide encode/decode operation with conjunction with the card discussed above ) and processing of video data ([0070] line 5-6 –“ playback video and audio files”);

a audio/video output interface connected with said audio processor and said video processor for output of said audio and video data ([0094] line 5-6 –“ the card may be configured to provide a mobile phone service, PDA, an MP3 player, a video player”);

at least a storage medium interface connected with said general purpose processor for electric connection with at least a memory medium (See Fig. 44/116, 137 and [0103] line –4 “the storage card provides both the program and the data storage” The storage card is connected to microprocessor Fig. 23/165 [0079] line 8-10 –“That is, the card includes a microprocessor 160, a ROM 161, a RAM 162, drivers and timers 163, a storage (flash or magnetic memory) 164, a high speed interface 165”) )

a plurality of connection interfaces connected with said system-on-a-chip for electric connection with a plurality of external electronic devices, said general purpose processor being used to accomplish signal connection with said electronic devices through execution of said application programs ([0006] line 5-8 – “This card when inserted into the host device configures the host device to function as a MP3 player, a

video recorder or player, a cell phone, a GPS direction finder or a PDA according to the specific configuration of the card.”).

Regarding claim 2 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said operation system and said application programs are downloaded ([0088] line 2 –“download of a large data file, such as a movie, music or confidential”) from said external electronic devices ([0094] line 10-11 – “if the user wishes to use the host device to listen to music, a second card configured for audio playback”)

Regarding claim 3 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said operation system and said application programs are built in said memory. ([0098] line 10-11 – “operating system and applications are stored in the card” and claim 24 line 1-2 –“application programs are stored in the storage area”)

Regarding claim 4 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said audio/video output device comprises:

a audio output interface connected with said audio processor for connection with a audio output device for outputting audio (see claim 13 –line 3 “audio recorder, audio player” [0002] line 1-2” portable electronic devices that are used to process data including viewing text and playing audio and video files”);

and an video output interface connected with said video processor for connection with a display for displaying video ([0006] line 5-7 –“ This card when inserted into the

host device configures the host device to function as a MP3 player, a video recorder or player” and [0105] line 5-6 – “video recorder, MPEG2 player”).

Regarding claim 5 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 4, wherein said audio output device is selected from the group consisting of a car acoustic and a loudspeaker ([0100] line 5- “Speaker 104” and Fig. 1 /104; [0066] line 6-7 –“ a speaker unit 104”).

Regarding claim 6 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 4, wherein said display is selected from the group consisting of a liquid crystal display and a television ([0069] line 5 – “Screen 103 is a TFT device, such as, NEC's NL2432DR22” Fig. 1 /103).

Regarding claim 7 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said operation system is a real-time operation system ([0088] line 5-7 – “The card reader mechanism is first installed in a system that has a communication channel to the secure server.” [0105] line - 6 – “pocket personal computer, GPS”[0004] line -“ can be used to send and receive emails”).

Regarding claim 8 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said application programs include a GPS navigation program ([0006] line 6-7 – “to function as a MP3 player, a video recorder or player, a cell phone, a GPS”).

Regarding claim 9 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 8, wherein said general purpose processor performs a plurality of GPS navigation processing including positioning coordinate calculation, navigation route plan, map data search and map display through said GPS navigation program ([0005] line 1-3 – “GPS frequencies and storage to provide local information such as, restaurant lists, shopping malls locations and driving directions” [0006] line 7 – “ a GPS direction finder” is base on navigation process performing coordination, calculation and search).

Regarding claim 11 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein the audio file format processed by said audio processor is selected 5 from the group consisting of MP3, AC3, DTS, WMA and Karaoke ([0094] line 13-14 – “a card may be provided with a dual function of mobile phone and MP3 player.”).

Regarding claim 12 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said audio processor can further perform the conversion from text to voice (Text-to-Speech).([0091] line 8-10 – “reader mechanism directs the data from disk 205 through the cryptography engine 282 where cipher text is converted to data which is then passed on to the host system”)

Regarding claim 14 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein the video file format processed by said video processor is selected from the group

consisting of MPEG1, MPEG2 ([0105] line 6 –“ MPEG2 player”), MPEG4, Divx, JPEG, M-JPEG, and WMV.

Regarding claim 15 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said storage medium is selected from the group consisting of hard disk drive, optical disc drive ([0107] line 4 –“ hard disk drive”), and memory card ([0106] line 1-2 – “memory storage unit or a flash memory”).

Regarding claim 16 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 15, wherein the format of optical disc read/written by said optical disc drive is selected from the group consisting of DVD ([0003] line 4 –“ DVD player”), VCD, CD and MP3 ([0008] LINE 6 – “DVD player”).

Regarding claim 17 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 1, wherein said storage medium interface is a memory card slot ([0009] line 2-4 – “and a slot configured to receive a card having a first semiconductor device provided at a first location on the card and a storage area”).

Regarding claim 18 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 17, wherein said memory card slot can provide insertion of memory cards of different formats ([0009] line 6-9 –“ The card is configured to provide an application specific function.



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The device is configured to provide a function according to the application the card needs to satisfy when it is inserted into the slot.”).

Regarding claim 19 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 18, wherein said memory card is selected from the group consisting of Secure Digital card ([claim 27 line 1-2 – “ the card is a drivers license, identification card, security card”), Multi Media card, Smart Media card, Memory Stick card, Compact Flash card ([0079] line 9- 10 – “a storage (flash or magnetic memory)” [0034] line 1 – 2 –“ a storage card with a Flash memory device as a storage volume”), XD picture card and Micro Drive.

Regarding claim 20 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 17, wherein said connection interface is selected from the group consisting of USB ([0070] line 3 – “The USB or firewire connector”), PCI, IDE, RS232, PS/2, PCMCIA ([0096] line 12-13 – “a standard PCMCIA interface”), ISA and IR.

Regarding claim 21 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 17, wherein said external electronic device is selected from the group consisting of GPS module, mobile communication module, Joystick, remote controller, mini-keyboard, tape recorder, mouse, and keyboard ([0098] line 5-6 –“ interface with I/O devices such as the keyboard, mouse, printer and monitor”).

Regarding claim 22 Conner teaches:

The integrated multimedia microcomputer device as claimed in claim 21, wherein said mobile communication module is selected from the group consisting of GSM ([0094] line 5-6 – “the card may be configured to provide a mobile phone service,”), GPRS, CDMA and pager.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conner, and further in view of Chang, Ryan US 20030216846 A1.

Regarding claim 10, Conner fails to further teach that multimedia microcomputer device can be installed in a car. Conner discloses that the device is portable it means that could be everywhere – in car too. Chang discloses (0002] line 2-3 – “a car computer operation module integrating functions of car navigation and audio/video devices together therewithin”). Therefore, the combined teaching of Conner and Chang would have rendered obvious utilization of using the portable device in car as Chang taught.

Regarding claim 13, Conner fails to further teach that the processor can further perform the calculation of GPS positioning coordinates. Conner discloses the device is configured to take on a function of different devices including position locator working

(based on calculation of car position) as shown on Fig. 44 including microprocessor 130 and Fig. 25/160). Chang discloses ([0020] line 2-5 – “a central processing unit (CPU) 31 serving as the heart of the first control circuit 3, a read only memory (ROM) 32 for storing a control program for the first control circuit 3, and a global positioning system (GPS) 33 for receiving radio signals transmitted from a GPS satellite”). Therefore, the combined teaching of Conner and Chang would have rendered obvious utilization of using CPU to perform calculate position measurement data and its relevant coordinates as Chang taught.

***Examiner's Note***

6. The referenced citations made in the rejection(s) above are intended to exemplify areas in the prior art document(s) in which the examiner believed are the most relevant to the claimed subject matter. However, it is incumbent upon the applicant to analyze the prior art document(s) in its/their entirety since other areas of the document(s) may be relied upon at a later time to substantiate examiner's rationale of record. A prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. *W.L. Gore & associates, Inc. v. Garlock, Inc.*, 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984). However, “the prior art’s mere disclosure of more than one alternative does not constitute a teaching away from any of these alternatives because such disclosure does not criticize, discredit, or otherwise discourage the solution claimed....” *In re Fulton*, 391 F.3d 1195, 1201, 73 USPQ2d 1141, 1146 (Fed. Cir. 2004).

**Contact**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jivka Rabovianski whose telephone number is (571) 270-1845. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SRIVASTAVA VIVEK can be reached on (571) 272-7304. Customer Service can be reached at (571) 272-2600. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jivka Rabovianski/



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